

Figure 1

Clone S1+27 protein sequence (SEQ ID No. 1)

1 KSSPLLIRMEESLNIVKYTAFLYNDQLIWSGLEQDDMRILYKYLTTSLFP 50  
51 RHIEPELAGRDSPIRAEMPGNLQHYGRFLTGPLNLNDPDAKCRFPKIFVN 100  
101 TDDTYEELHLIVYKAMSAAVCFMIDASVHPTLDFCRRLDSIVGPQLTVLA 150  
151 SDICEQFNINKRMSGSEKEPQFKFIYFNHMLAEKSTVHMRKTPSVSLTS 200  
201 VHPDLMKILGDINSDFTRVDEDEEIIIVKAMSDYWVVGKKSDRRELYVILN 250  
251 QKNANLIEVNEVKKLCATQFNNIFFLD 277

09927739.081001

Figure 2

Clone S1+28 protein sequence (SEQ ID No. 2)

1 FAVDAKALPQNKPRPLTQEEIAQRRERARQRHAEKLAAAQGQAPLEPTQD 50  
51 GSAIETCPKGDEPRGDEQQVESMTPKPVLQEENNQESFIAFARVFSGVAR 100  
101 RGKKIFVLGPKYSPLEFLRRVPLCFSAPPDGLPQVPHMAYCALENLYLLM 150  
151 GRELEYLEEVPNGNVLGIGGLQDFVLKSATLCSLPSCPPFIPLNFEATPI 200  
201 VRVAVEPKHPSEMPQLVKGMKLLNQADPCVQILIQETGEHVLVTAGEVHL 250  
251 QRCLDDLKERFAKIHISVSEPIIPFRETITKPPKVDMMVNEEIGKQQKVAV 300  
301 IHQMKEDQSKIPEGIQVDSGLITITTPNKLATLSVRAMPLPEEVTQILE 350  
351 ENSDLIRSMEQLTSSLNEGENTHMIHQKTQEKIWEFKGKLEQHLTGRWR 400  
401 NIVDQIWSFGPRKCGPNILVNKSEDFQNSVWTGPADKASKEASRYRDLGN 450  
451 SIVSGFQLATLSGPMCEEPLMGVCFVLEKWDLSKFEEQGASDLAKEDRRK 500  
501 MKPVLVEMKTKSYKMAALRPLRRGHHRKENLHSLTAMDLSQDS 543

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"REF/2660"

Figure 3

Clone S1+19 protein sequence (SEQ ID No. 3)

1 MKAVKSERERGSRRRHRDGDVVLPAGVVVKQERLSPEVAPPAHRRPDHSG 50  
51 GSPSPPTSEPARSGHRGNRARGVSRSPPKKKNKASGRRSKSPRSKRNRSP 100  
101 HHSTVKVKQEREDHPRRGREDRQHREPSEQEHRRARNSDRDRHRGHSHQR 150  
151 RTSNERPGSGQGQGRDRDTQNLQAQEEEREFYNNARRREHRQRNDVGGGGS 200  
201 ESQELVPRPGGNNKEKEVPAKEKPSFELSGALLEDNTFRGVVIKYSEPP 250  
251 EARIPKKRWRLYPFKNDEVLPVMIHRQSAAYLLGRHRRRIADIPIDHPSCS 300  
301 KQHAFVQYRLVEYTRADGTVGRRVKPYIIDLGSGNGTFLNNKRIEPQRY 350  
351 ELKEKDVLFKFGFSSREYVLLHESDTSIDRKDDDEEEEEEEVSDS 396

0992738.01001  
"FOOTED" 82/2660

Figure 4

Protein sequence of NIPP-1 domain (SEQ ID No. 4) homologous  
to SNIP 1.

1 YLFGRNPDLCDFTIDHQSCSRVHAALVYHKHLKRVFLIDLNSTHGTFLGH 50  
51 IRLEPHKPQQIPIDSTVSFGASTRAYTLREKP 82

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Figure 5

Clone S1+19 Smad binding domain protein sequence (SEQ ID No. 5)

1 RHRGSHQRRTSNERPGSGQGQGRDRDTQNLQAQEEEREFYNARRREHRQ 50  
51 RNDVGGGGSESQELVPRPGGNNKEKEVPAKEKPSFELSGALLEDTNTFRG 100  
101 VVIKYSEPPEARIPKKRWRLYPFKNDEVLPVMYIHRQSAYLLGRHRRRIAD 150  
151 IPIDHPSCSKQHAFVQYRLVEYTRADGTVGRRVKPYIIDLGSGNGTFLNN 200  
201 KRIEPQRYVELKEKDVLKFGFSSREYVLLHESDTSEIDRKDDDEDEEEEEE 250  
251 EVSDS 255

092738.081001

Figure 6

Clone S1+19 C. elegans homology protein sequence

(SEQ ID No. 6)

1 GALTEDTNTFRGVVIKYNEPPEAKKPNARWRLYPFKGEESLQVLYIHRQS 50  
51 AYLIGRDHKKIADIPVDHPSCSKQHAVLQFRSMPFTRDDGTKARRIMPYII 100  
101 DLGSGNGTFLNEKKIEPQRYIELQEKDMLKFGFSTREYVVMKEREITEEE 150  
151 LAEGEDVKKEESD 163

09027738.001001

Figure 7

Clone S1+12 protein sequence (SEQ ID No. 7)

1 EFGTRRMMEGLDDGPDFLSEEDRGLKAINVDLQSDAALQVDISDALSERD 50  
51 KVKFTVHTKSSLPNFKQNEFSVVRQHEEFIWLHDSFVENEDYAGYIIPPA 100  
101 PPRPDFDASREKLQKLGEGECSMTKEEFTKMKQELEAEYLAIFKKTVMAMH 150  
151 EVFLCRVAAHPILRRDLNFHFVLEYNQDLSVRGKKKKKNSRSFGLLRQ 198

0992738.001001

Figure 8

Clone S1+12-2 protein sequence (SEQ ID No.8)

1 HASGLGAAMMEGLDDGPDFLSEEDRGLKAINVDLQSDAALQVDISDALSE 50  
51 RDKVKFTVHTKSSLPNFKQNEFSVVRQHEEFIWLHDSFVENEDYAGYIIP 100  
101 PAPPRPDFDASREKLQKLGEGECSMTKEEFTKMKQELEAEYLAIFKKTVA 150  
151 MHEVFLCRVAAHPILRRDLNFHFVLEYNQDLSVRGKNKKEKLEDDFKNMV 200  
201 KSADGVIVSGVKDVDDFFEHERTFLLEYHNRVKDASAKSDRMTRSHKSAA 250  
251 DDYNRIGSSLYALGTQDSTDICKFFLKVSELDKTRKIEARVSADEDLKL 300  
301 SDLLKYYLRESQAAKDLLYRRSRSLVDYENANKALDKARAKNKDVLQAET 350  
351 SQQLCCQKFEEKISESAKQELIDFKTRRVAAFRKNLVELAELELKHAKGNL 400  
401 QLLQNCLAVLNGDT 414

09927738.081001



Figure 9

Clone S1+12-5 protein sequence (SEQ ID No.9)

1 MTTLTEIKLLPSLVLLVCCEYLAIFFKKTVMHEVFLCRVAAHPILRRDLN 50  
51 FHVFLLEYNQDLSVRGKNKKEKLEDDFFKNMVKSADGVIVSGVKDVDDFFEH 100  
101 ERTFLLEYHNRVKDASAKSDRMTRSHKSAADDYNRIGSSLYALGTQDSTD 150  
151 ICKFFLKVSELFDKTRKIEARVSADEDLKLSDLLKYLYLRESQAAKDLLYR 200  
201 RSRSLVDYENANKALDKARAKNKDVLQAETSQQLCCQKFEEKISESAKQEL 250  
251 IDFKTRRVAAFRKNLVELAELELKHAKGNLQLLQNCLAVLNGDT 294

092738.081001

Figure 10

Clone S3+1 DNA sequence (SEQ ID No. 10)

1 ATGTCAAGTGGAATTTGGCAGAGAGGCCAAAGAAGAAGAAGGAGTTTATGG 50  
51 TTTTCTAATAGAAGATATCAGGAAGGAAGTGAATAGAGCTTCTAAACTGA 100  
101 AATGCTGTGTTTGCAAGAAAAATGGTGCTTCAATTGGATGTGTTGCACCC 150  
151 CGATGTAAACGAAGTTATCATTTCCCATGTGGACTTCAGAGAGAATGTAT 200  
201 TTTCCAGTTTACTGGCAATTTTGCGTCATTTTGTGTTGGGACCATCGACCTG 250  
251 TTCAAATAATTACATCTAATAATTATAGAGAGTCCTTACCATGCACCATT 300  
301 TGCTTGGAATTTATTGAGCCTATTCCAAGTTATAACATATTACGAAGTCC 350  
351 TTGTTGTAAGAACGCTTGGTTTCATAGAGACTGTTTACAGGTTCAAGCAA 400  
401 TAAATGCGGGAGTGTTTTTCTTTAGGTGTACAATATGCAATAATAGTGAC 450  
451 ATCTTTCAGAAAGAGATGTTGAGAATGGGAATTCATATTCCTGAAAAAGA 500  
501 TGCTTCCTGGGAATTAGAGGAAAACGCTTATCAAGAGCTTCTGCAGCACT 550  
551 ATGAGCGTTGTGATGTTTGAAGATGTCGTTGCAAAGAAGGGCGAGACTAT 600  
601 AATGCACCTGATAGCAAATGGGAAATAAAGCGCTGTCAAGTGTGTTGTTG 650  
651 CAGTGGCACACATTTAGCCTGCTCCTCATTACGGTCATGGGAGCAAAATT 700  
701 GGGAGTGTTTGAATGTAGGGGTATTATCTACAATTCAGGAGAGTTCCAA 750  
751 ACAGCCAAAAAACATGTATTACCCAATTCTAATAATGTGGGGATTACAGA 800  
801 TTGTTTGTGTTGGAAGAGTCATCACCTAAATTACCCAGACAGTCACCTGGAT 850  
851 CCCAGAGTAAAGATCTACTGAGGCAAGGCAGCAAATTTAGAAGAAATGTA 900  
901 TCAACACTATTAATAGAGTTAGGATTCCAAATTAAAAAAAAAAAAAAAAAA 950  
951 ACTCGAGAAGNTTGGANTNTTCGCCAGAGGTTTGGTCAA 989

052736-001001

Figure 11

Clone S3+1 protein sequence (SEQ ID No. 11)

1 MSSGIWQRGKEEEGVYGFIEDIRKEVNRASKLKCCVCKKNGASIGCVAP 50  
51 RCKRSYHFPCGLQRECIFQFTGNFASFCWDHRPVQIITSNNYRESLPCTI 100  
101 CLEFIEPIPSYNILRSPCKNAWFHRDCLQVQAINAGVFFFRCTICNNSD 150  
151 IFQKEMLRMGIIHIPEKDASWELEENAYQELLQHYERCDVRRRCRCKEGRDY 200  
201 NAPDSKWEIKRCQCCGSSGTHLACSSLRSEQNWECELCRGIYNSGEFQ 250  
251 TAKKHVLPNSNNVGITDCLLEESSPKLPRQSPGSQSKDLLRQGSKFRRNV 300  
301 STLLIELGFQIKKKKKKLEKXGXFARGLV 329

092738.081001

Figure 12

Clone S3+12 DNA sequence (SEQ ID No. 12)

1 AGGAAAGCTACAGAAATTAGCACTGCAGTGGTTCAGAGGTCAGCTACCAT 50  
51 TGGCAGTTCTCCAGTTCTCTATAGCCAGTCAGCTATAGCTACAGGTCACC 100  
101 AGGCAGCAGGGATTGAAAACCAGGCAACAGGAATTGGACATCAGACAATA 150  
151 CCAGTTAGCCTTCCAGCAGCAGGAATGGGTCATCAGGCCAGAGGAATGAG 200  
201 CCTGCAGTCAAATTACCTTGGACTAGCGGCAGCACCTGCAATTATGAGTT 250  
251 ATGCAGAATGTTCTGTCCCAATTGGAGTGACTGCTCCCTCATTCAGCCA 300  
301 GTTCAGGCCCCGAGGTGCTGTGCCTACCGCTACCATTATAGAACCACCACC 350  
351 ACCACCTCCTCCTCCTCCTCCTCCACCACCACCAGCTCCCAAAATGCCAC 400  
401 CACCTGAAAAGACAAAAAAGGAAGGAAAGACAAGGCAAAGAAGAGTAAG 450  
451 ACCAAAATGCCATCTTTGGTAAAAAAGTGGCAGAGTATCCAGCGTGAGTT 500  
501 AGATGAAGAGGACAATTCTAGTTCAGTGAAGAGGATCGGGAATCAACTG 550  
551 CACAGAAGCGAATTGAAGAGTGGAACAGCAGCAGCTGGTTAGTGGCATG 600  
601 GCAGAGAGAAATGCTAATTTTGAAGCCCTTCCTGAGGATTGGAGAGCAAG 650  
651 GCTGAAGAGAAGGAAAATGGCTCCAAACACATAGTTTTTAAGTTTTTAAA 700  
701 ACTTTTTTTGTATTATTGTTTGTGTTTGTGTTTCAGTTCAAAGTCTTAACCAG 750  
751 TTTTATTGTCAAATAAACTATAAATGTTATGGGGGAGATCTTATAAAATTT 800  
801 CCTGGGCAAGAGTGTATGCATACAAAGTTTTCACTTTTGTGAAATGTAAT 850  
851 TTTTCTGTTTTTTGCAAAGGGATGAGGTGATTGGAATTGCTTTGACCATGC 900  
901 TGCCTTTTATTCTCAAACCTGGCAAACCTTAGCATGTTAGGTGTATTAACCTC 950  
951 ATCAGTCTTGAAGAACATGTGGCTCATGAGTATAACACTTCTGTAGAGGA 1000  
1001 CTCCCTGACAAAAGTGAAGAATTAACCTTCTCCTCCAGAACAAGTGCAATT 1050  
1051 CAGAAGGCAGCTCTGCATTCTACCTTGCTTGACTGGAATTGTCTGAAGCT 1100  
1101 TTTTCTGGCCTCTTTTCTCTAGTCGGCCACCCCTGAAGTGCTGAGGTCTA 1150  
1151 AGTGGTTTACCTCGTGCTGATAGATGGCCACACTCTTTAGAGTAGTTCTC 1200  
1201 ATAAGTTCTAGAACTGGTAGCTCGGTCGTTTCGCACACTAGGTGGCATAAC 1250  
1251 AGGCAGCAGCAGGTGTTTCATATCCTTGATTTTGAGAATTTCCCCTCAAGT 1300  
1301 ATGTGGCAGTAAATACAACAAGACACTCTATGTATTAATGTCTCCATTGT 1350  
1351 CTTAACCCTGTTCCAAAAACAAATTCACCTCCTTTCTTTATGTGAATGTA 1400  
1401 TTCTCCATAAAATTCAGTATTTAAAAAGCAGTTTACTGTTCTGTACTTT 1450  
1451 CTGTTGTATCACAATCAGGTAAAAGTCACTTTAAACTGAGGAAACGGCAA 1500  
1501 ATGTGTGTTTTAAAGCTCTTTGTATTTCTCCAGTTTCTGACCTTGTAAT 1550  
1551 TGTATATATGCACTAATAAAGCTTTTTTTTATAATCCTGAAAAAAAAAAAA 1600  
1601 AAAAAAAAAAAAAAACTCGAGAAGCTTTGGACTTCTTCGCCAGAGGTTTGG 1650  
1651 TCAAGTCTCCAATCAAGGTTGTC 1673

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Figure 13

Clone S3+12 protein sequence (SEQ ID No. 13)

1 EFGTRRRKATEISTAVVQRSATIGSSPVLYSQSAIATGHQAAGIGNQATG 50  
51 IGHQTIPVSLPAAGMGHQARGMSLQSNYLGLAAAPAIMSYAECSVPIGVT 100  
101 APSLQPVQARGAVPTATIIIEPPPPPPPPPPPPPPAPKMPPPEKTKKGRKD 150  
151 KAKKSKTKMPSLVKKWQSIQRELDEEDNSSSSEEDRESTAQKRIEHWKQQ 200  
201 QLVSGMAERNANFEALPEDWRARLKRRKMAPNT 233

0902738-001001

Figure 14

Clone S3+103 DNA sequence (SEQ ID No. 14)

1 GAATTCGGCACGAGGCGGACGTCATTGAGCTGCGACCCTTGTTCAACGCC 50  
51 GTTGGGCAAGCCAGCTGCTGGAGGTGCCGAGAATCTGAGTTTCGGCAAGC 100  
101 AGCCAGGTCTGGAACTAATATTTTAAAAATGACTACACCAAACAAGACA 150  
151 CCTCCTGGTGCTGACCCCAAGCAGTTGGAAAGGACTGGAACAGTACGGGA 200  
201 AATTGGGTCACAAGCTGTTTGGTCACTCTCATCTTGCAAACCAGGATTTG 250  
251 GAGTGGATCAGTTACGAGATGACAATCTAGAACTTATTGGCAATCAGAT 300  
301 GGTTCCTCAGCCTCATTTAGTGAACATCCAATTCAGAAGAAAAACAACAGT 350  
351 GAAGACATTATGTATTTATGCAGACTACAAATCTGATGAAAGCTATACTC 400  
401 CAAGCAAGATCTCAGTCAGAGTAGGAAATAATTTTCACAACCTTCAAGAA 450  
451 ATTCGGCAACTTGAGTTGGTGGAAACCAAGTGGCTGGATTCATGTTCCCTT 500  
501 AACTGACAATCATAAGAAGCCAACTCGTACATTCATGATACAGATTGCTG 550  
551 TTCTAGCCAATCACCAGAATGGAAGAGACACCCATATGAGACAAATTAAA 600  
601 ATATACACACCAGTAGAAGAGAGCTCCATTGGTAAATTTCTAGATGTAC 650  
651 AACTATAGATTTTCATGATGTATCGTTCAATAAGGTGACTTTAAAATGAGA 700  
701 CGAAAATCATTAAACGTATCTTTGTTCTTATCCTGTATTTAAATAATATA 750  
751 TCATGTACCTTTATTGAACAAGGCATCCGTTATATCTAATTTTGTATATG 800  
801 TTTAAAAATATTTTATTGTAACCTTTGACAAATAAATTTGGGGTCATATTA 850  
851 TCTTTATTTTCTTTAACATGTAATAAAGCTCACATATTTTACATTAAAAA 900  
901 AAAAAAAAAAAAAAAAAAACTCGAGAAG 926

Figure 15

Clone S3+103 protein sequence (SEQ ID No. 15)

1 EFGTRRTSLSCDPCSTPLGKPAAGGAENLSFGKQPGLETNILKMTPNKT 50  
51 PPGADPKQLERTGTVREIGSQAVWSLSSCKPGFGVDQLRDDNLETYWQSD 100  
101 GSQPHLVNIQFRRKTTVKTLCIYADYKSDESYTPSKISVRVGNNFHNLQE 150  
151 IRQLELVEPSGWIHVPLTDNHKKPTRTFMIQIAVLANHQNGRDTHMRQIK 200  
201 IYTPVEESSIGKFPRCTTIDFMMYRSIR\*L\*NETKIIKRIFVLILYLNNI 250  
251 SCTFIEQGIRYI\*FCICLKIFYCNFDK\*IWGHIIFFIFNM\*\*SSHILH\*K 300  
301 KKKKKNSR 308

0992733-031001

Figure 16

Clone S3+125 DNA sequence (SEQ ID No. 16)

1 CAGGAATCTGTCCGAAGATAATTGAGGCAGAAGAGTCCAGAATGGGCCTC 50  
51 ATCATCGTCAATGCCTGGTACGGGAACTTTGTCAATGACAAGAGCAGGAA 100  
101 GAGCGAGAAGGTGAAGGTGATTGACGTGACTGTGCCCTGCAGTGCCTGGG 150  
151 TAAGGACTCGAAGCTCATCCTCACGAGGCCTCCAAGCTGGGCTGCCTGGC 200  
201 TTTTATGACCCGTGTGTGGGGGAAGAGAAGAACCTGAAAGTGCTCTATCA 250  
251 GTTCCGGGGCGTCCTGCATCAGGTGATGGTGCTGGACAGTGAGGCCCTCC 300  
301 GGATACCAAAGCAGTCCCACAGGATCGATACAGATGGATAAACTGCCAAG 350  
351 AACCAGATTTTTTAAAAGGCCGCAAAAATCTTTTCCTGGGAGTCTACAAA 400  
401 TTTGGAAATGAAAAAACCAGACATCAGATGTTTTTATTTTATATTATTA 450  
451 TTATAGAAGGTGGTACCATTATCAATTATGTGAAGGGACATGCAGACACC 500  
501 CCAGCACTGGTATCTGAGTAACGGCTAAGAACCTCCTTCCTCTGGTTTTG 550  
551 AAAAGCAGTTCGGGTTGTCCAATTCTGTAAACATTCATCTCCATTTTTTAA 600  
601 AAAGGTTTCTCTGACGGCCCCACGGCCCGAGCCGCGGTGAGCGTCGTGTT 650  
651 GCATGAGCCTGGGCCCCGGGCTTCCCGTGCGCCTCTGCCGCAGGTGCTTC 700  
701 TGGGCACCCATCCTCTGCGTTTCATTTGCAGTCGACTGTACAGAAGGCAC 750  
751 TCACCACAATAAACCTTTCCTGAAAGCAAAAAAAAAAAAAAAAAAACTCG 800  
801 AGAAGGTTTGGACTTGTTTCGCCAGAGGTTTGGTCAAGTNTCCAA 844

0992739.081001



Figure 17

Clone S3+125 protein sequence (SEQ ID No. 17)

1 IRHEAAGICPKIIEAESRMGLIIVNAWYGNFVNDKSRKSEKVKVIDVTV 50  
51 PCSAWVRTRSSSSRGLQAGLPGFYDPCVGEEKNLKVLYQFRGVLHQVMVL 100  
101 DSEALRIPKQSHRIDTDG 118

092733-037001

Figure 18

Clone S1+30 DNA sequence (SEQ ID No. 18)

1 GAATTCGGCACGAGGCGGACAAAGGGAATCAAAGTTGTGGGAAAATGGAA 50  
51 GGAAGTGAAGATTGACCCAAATATGTTTGCAGATGGACAGATGGATGACT 100  
101 TGGTGTGCTTTGAGGAATTGACAGATTACCAGTTGGTCTCCCCTGCCAAG 150  
151 AATTCCTCCAGCTCTCTTCTCAAAGGAAGCACCCAAGAGAAAGGCACAA 200  
201 GCTGTTTCAGAAGAAG 216

0902738.001001

Figure 19

Clone S1+30 protein sequence (SEQ ID No. 19)

1 EFGTRRTKGIKVVVGKWKEVKIDPNMFADGQMDDLVCFEELTDYQLVSPAK 50

51 NSLQLSSQRKHPRERHKLFQKK 72

0992738.081001

Figure 20

Clone S3+14 5' DNA sequence (SEQ ID No. 20)

1 CGATTTCTAGCGTATATGGAGGATCGCAGAAAACAGAAGTGGCAAAGATG 50  
51 TAAAAAAAATAATAAGGCAGAATTGAACTGTTTGGGAATGGAACCAGTAC 100  
101 AGACAGCTAACTCTAGAAATGGGAAAAGGGTCATCACA CTGAAACGGTG 150  
151 TTCAACCGGGTTTTGCCAGGGCCTATTGCACCAGAGAGCAGCAAGAAGCG 200  
201 GCCCGTAGATGCGACCAGACCTTTCTAAGATGATGGCCCTCATGCAGGTG 250  
251 GAAGCATCGGT 261

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Figure 21

Clone S3+14 3' DNA sequence (SEQ ID No. 21)

1 AGAGGCCCTCATGCAGGGTGGAAGCACTGGGTCTCTATCTCTGCATAACA 50  
51 CGTTCCAACACAGCAGTAGTGGCCTACAGTCTGTGTCATCTTTGGGTCAC 100  
101 AGCAGTGCCACTTCTGCATCTTTGCCTTTTATGCCATTTGTGATGGGTGG 150  
151 TGCACCATCATCCCCTCATGTAGACTCCAGCACCATGCTTCATCACCACC 200  
201 ACCACCACCCCCACCCCCACCATCACCACCATCACCATCCAGGCTTGAGA 250  
251 GCCCCTGGCTACCCCTCTTCACCAGTGACTACCGCCTCTGGTACTACCTT 300  
301 GCGGTTGCCACCACTGCAACCTGAGGAGGATGACGATGAGGATGAAGAAG 350  
351 ATGATGATGACTTATCTCAGGGCTATGATAGCTCAGAAAGGGACTTCTCA 400  
401 CTCATTGATGATCCTATGATGCCAGCTAACTCAGACTCCAGTGAAGATGC 450  
451 TGATGACTGAAGCCCCAGCATGGGCCCCATTGCTTGGGCGGCTGCTGTAT 500  
501 TTTCATTTACTCTGGCCCTTGGACTATGGAAACGTGGGAGGGGCAGG 547

0992738.081001

Figure 22

Clone S3+14 protein sequence (SEQ ID No. 22)

1 EALMQGGSTGSLSLHNTFQHSSSSGLQSVSSLGHSSATSASLPFMPFVMGG 50  
51 APSSPHVDSSTMLHHHHHHHPHPHHHHHHHPGLRAPGYPPSPVTTASGTTL 100  
101 RLPPLQPEEDDDDEDEEDDDDL SQGYDSSERDFSLIDDPMPANSDSSEDA 150  
151 DD 152

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0992738 081000  
FOOTED" 8E/2660

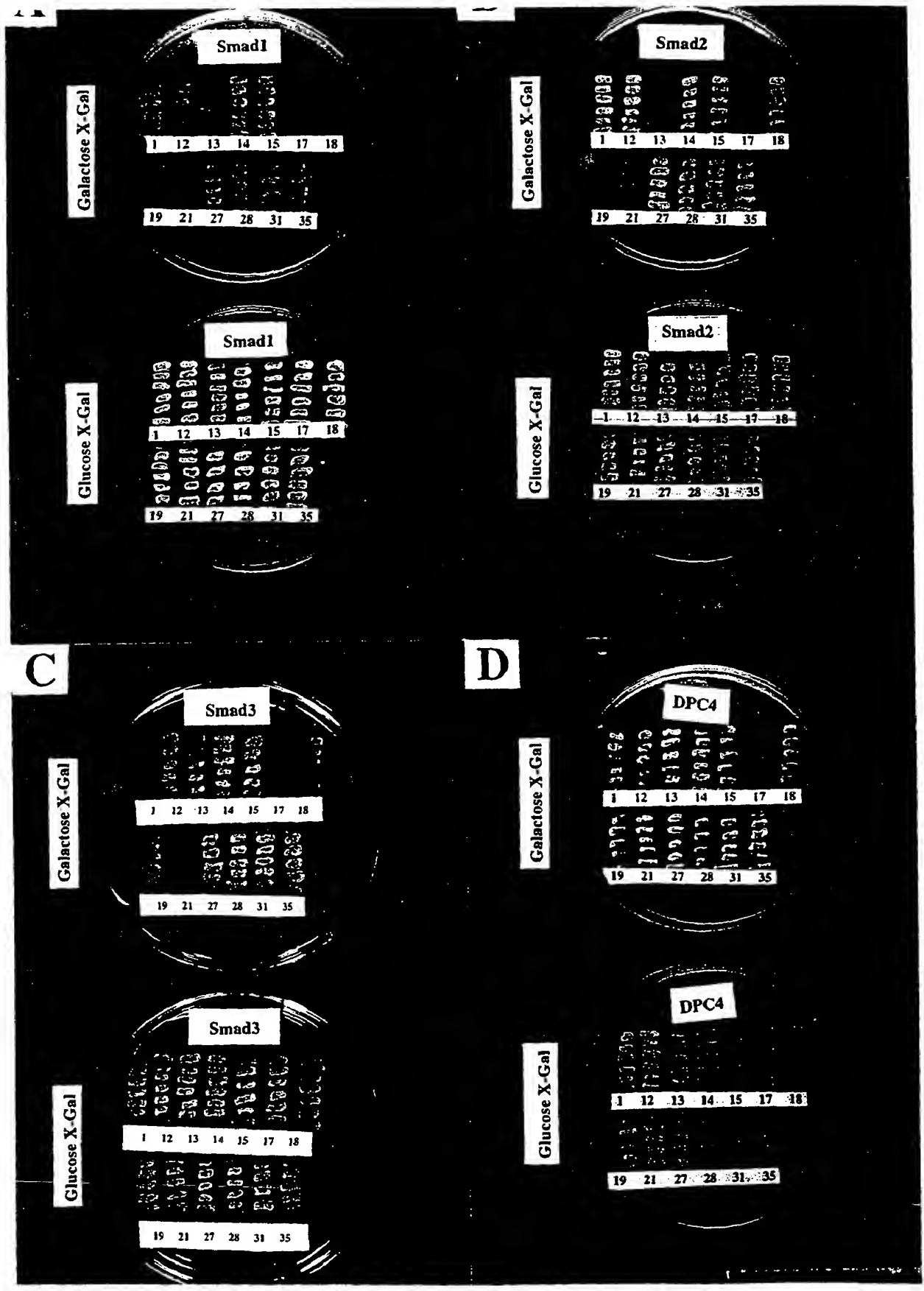


FIGURE 23  
23 / 45

0992738-081001

FIGURE 24

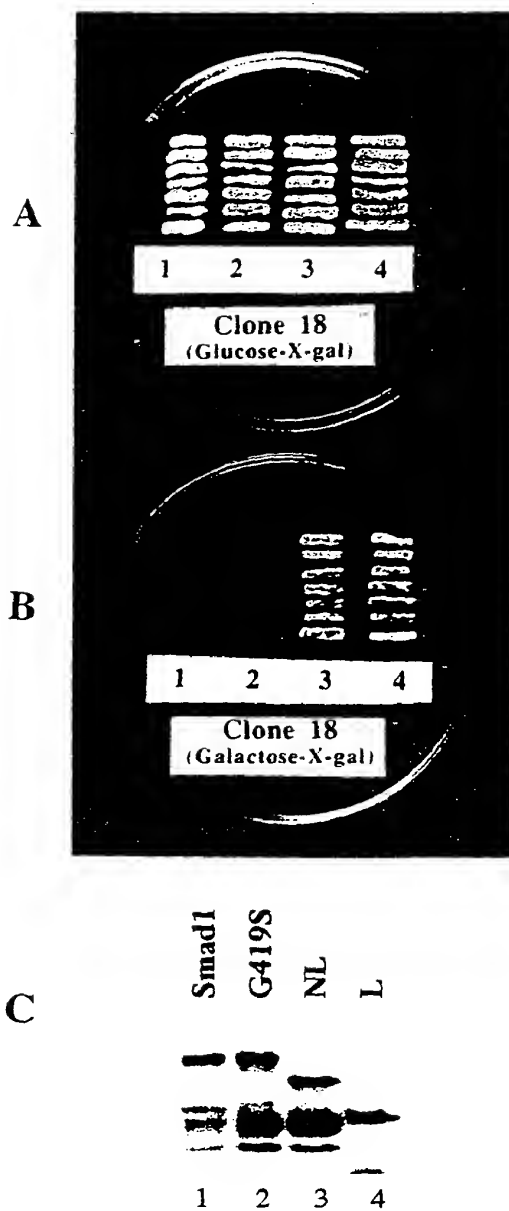




FIGURE 25

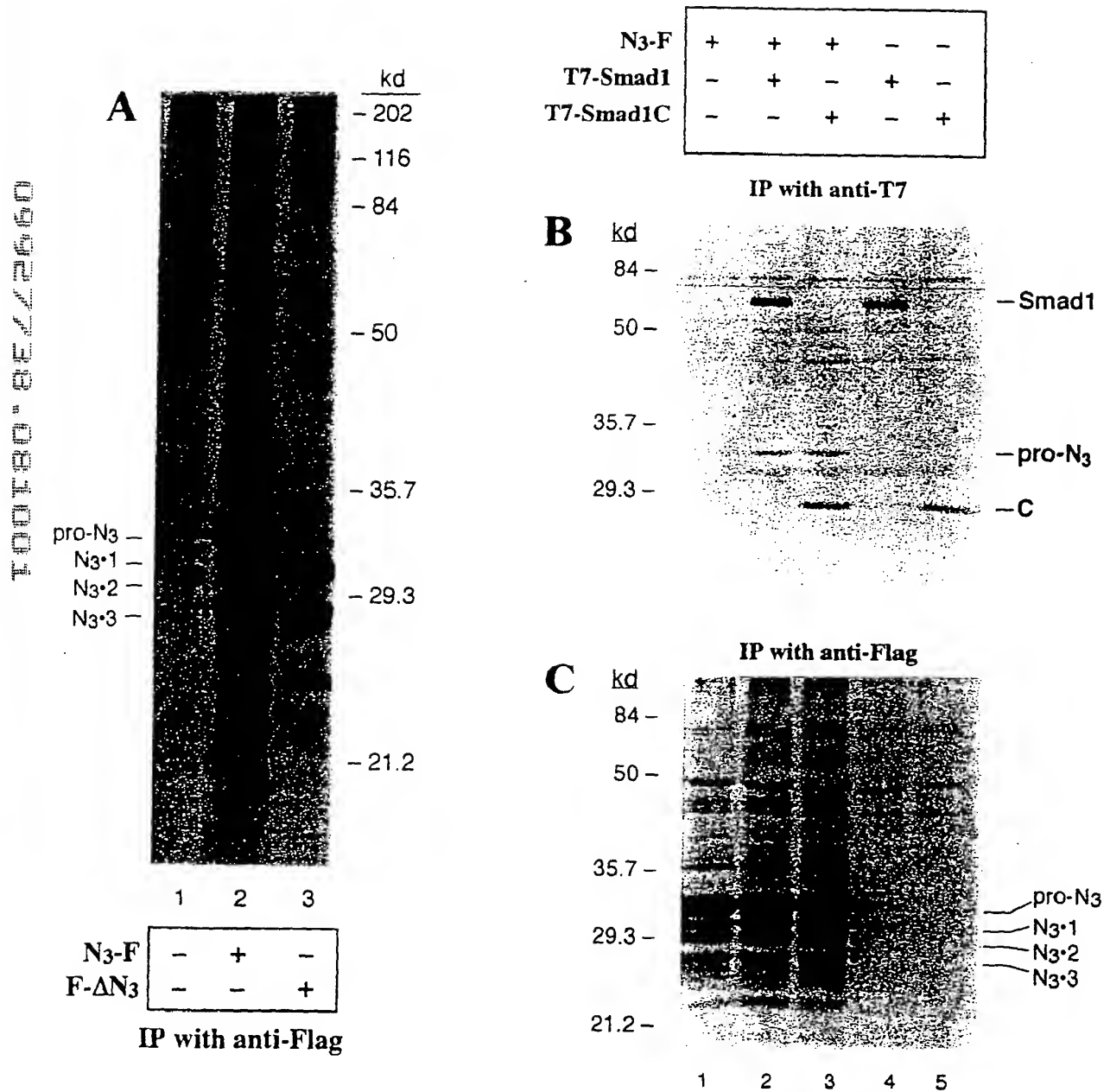


FIGURE 26

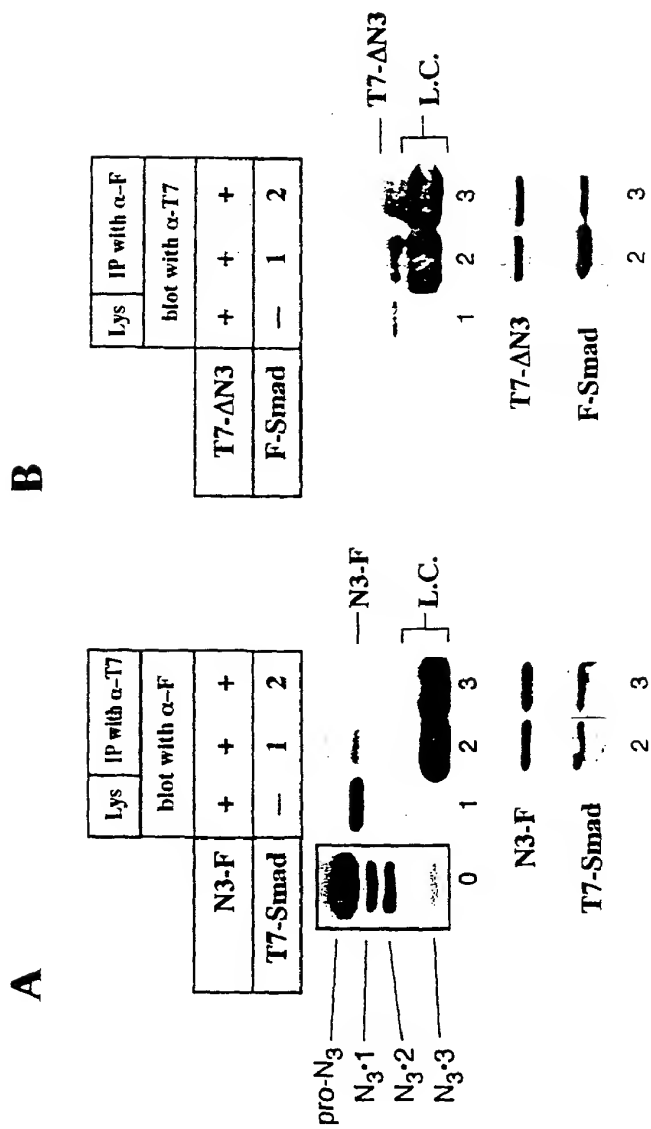
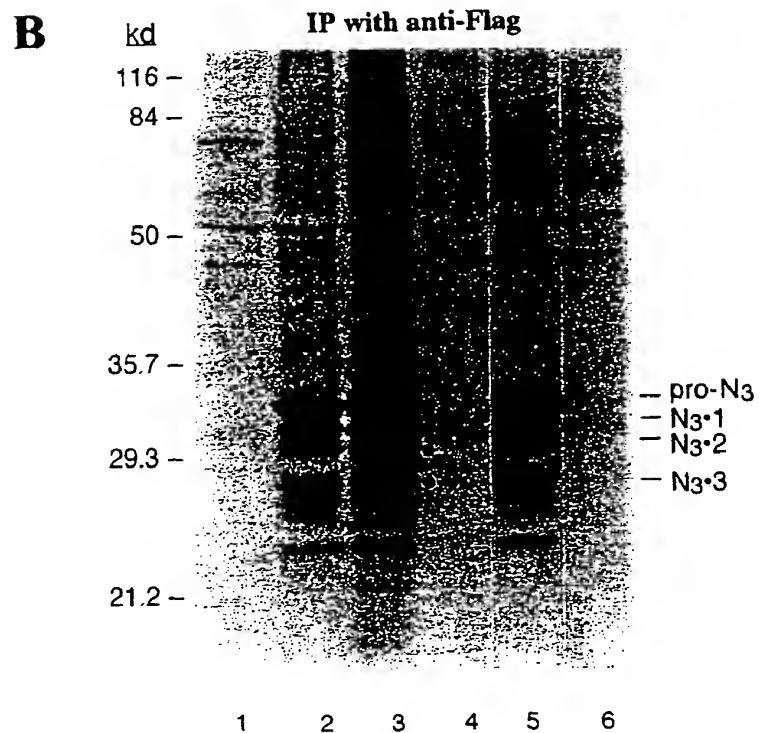
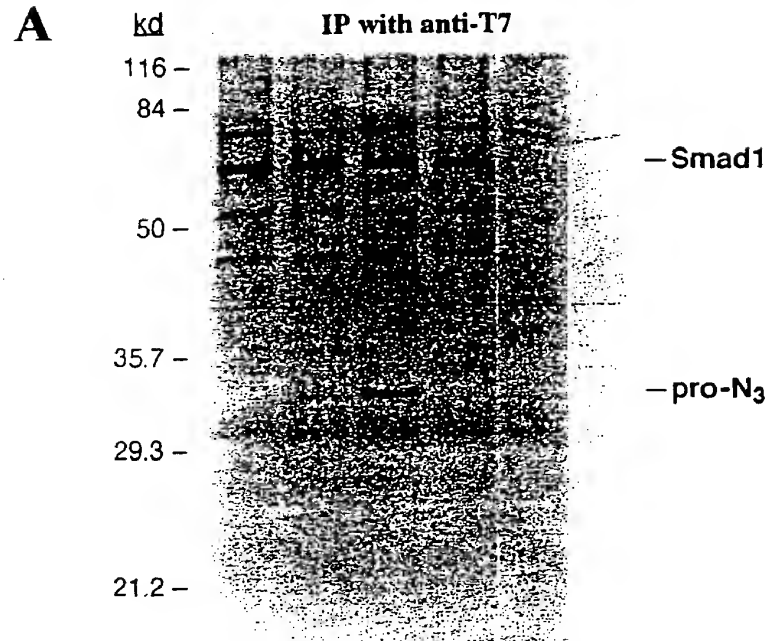


FIGURE 27

N3-F	-	+	+	-	+	-
T7-Smad1	+	+	+	+	-	-
HA-ALK3QD	-	-	+	+	+	+



100T80" 8E/22660

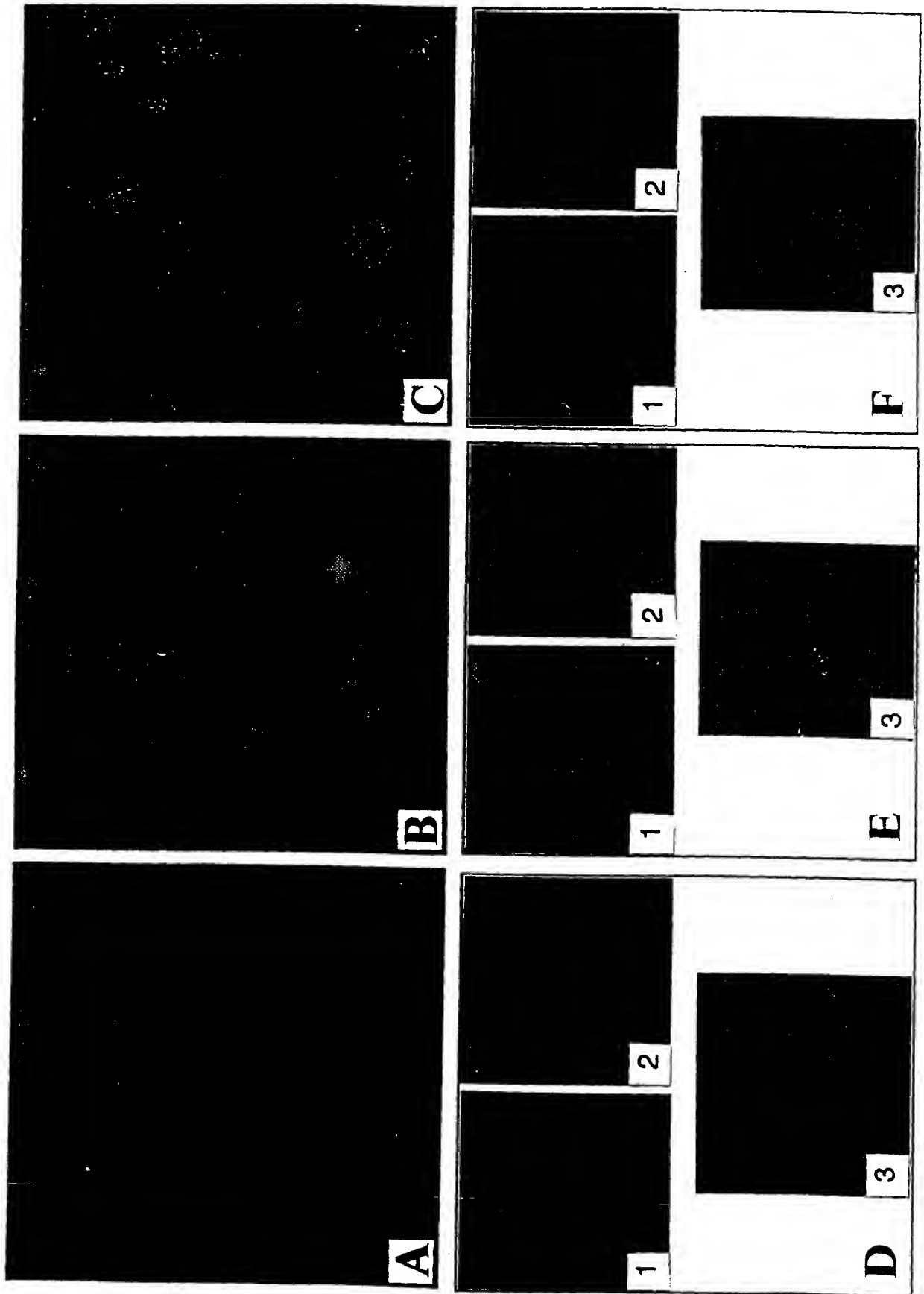
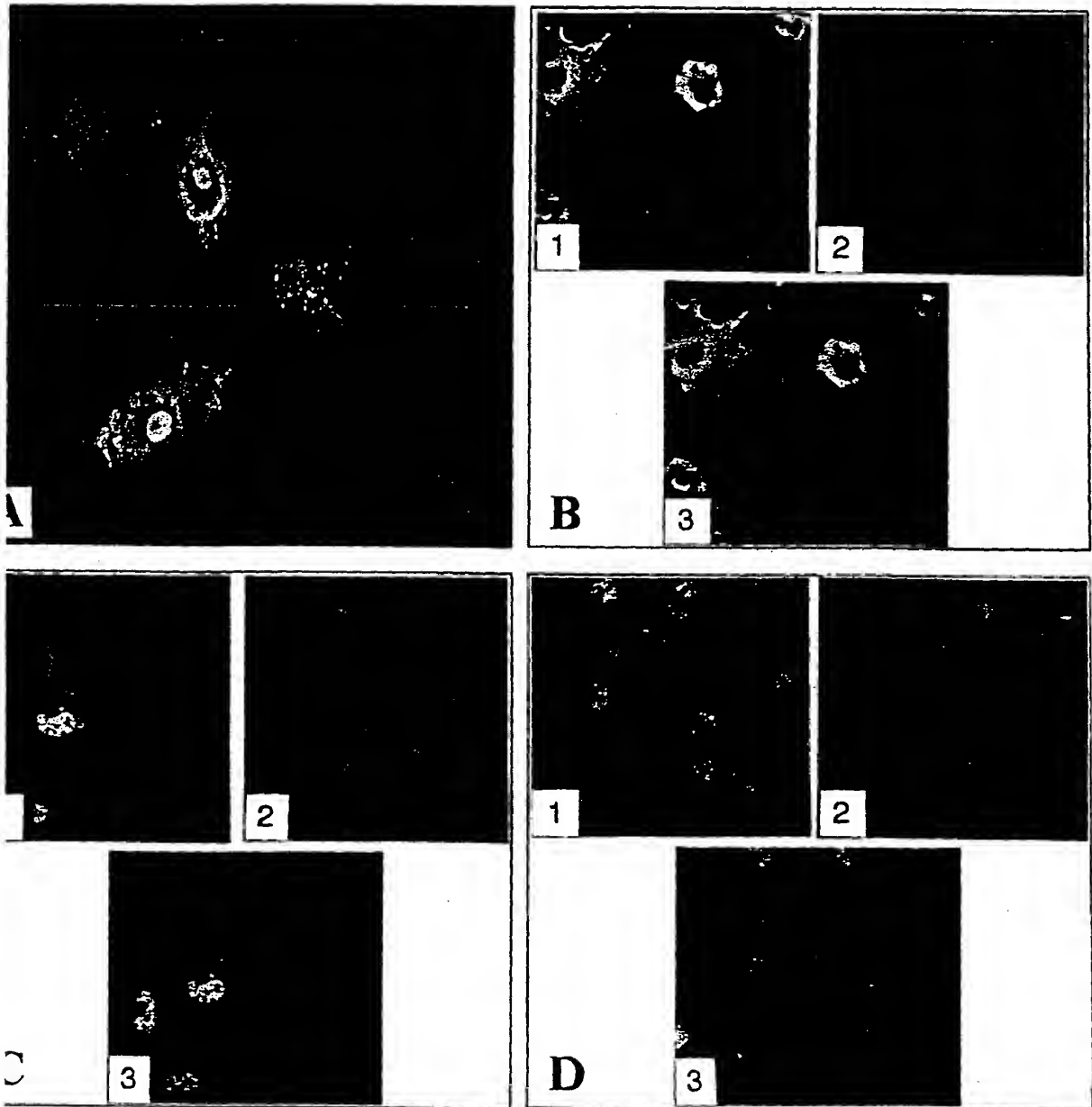


FIGURE 29

100180" 8E/2660



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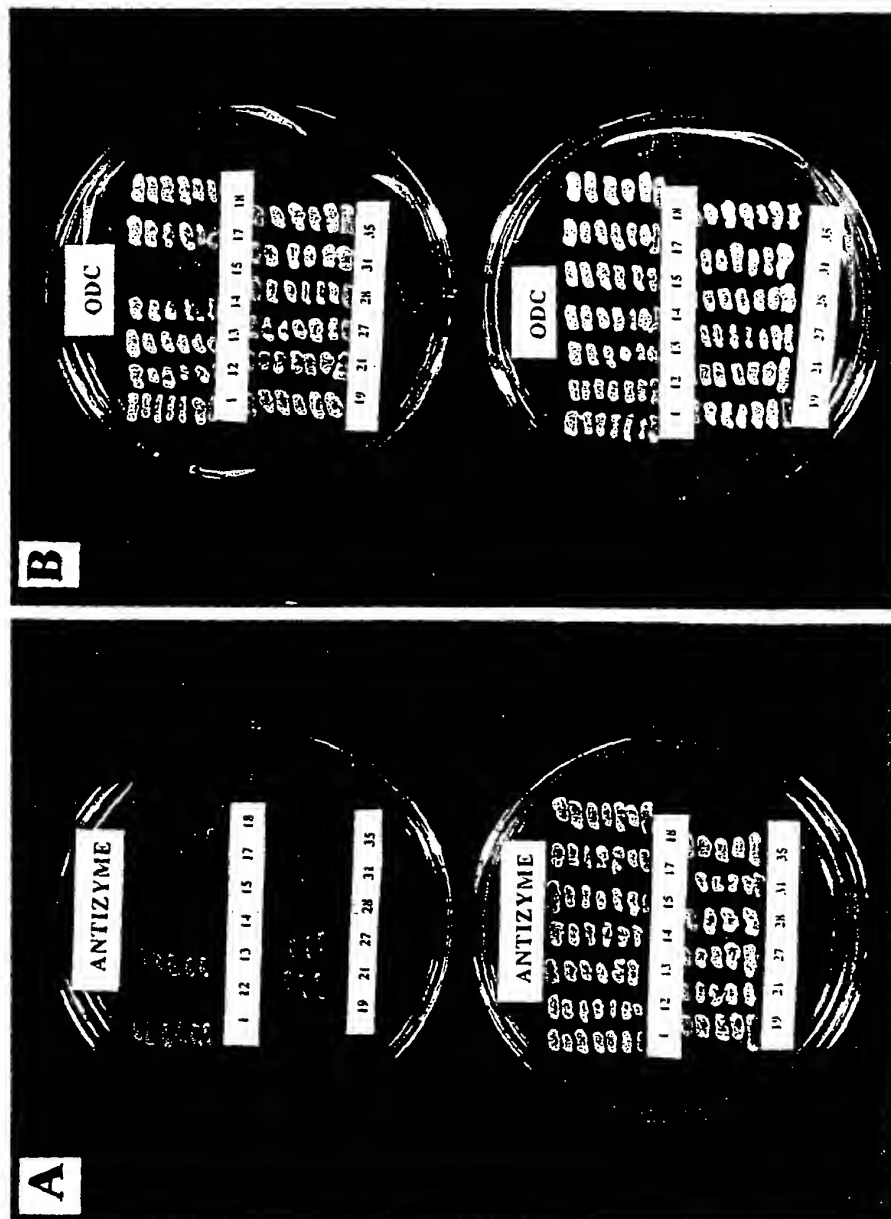


FIGURE 30

100180"BE/2660

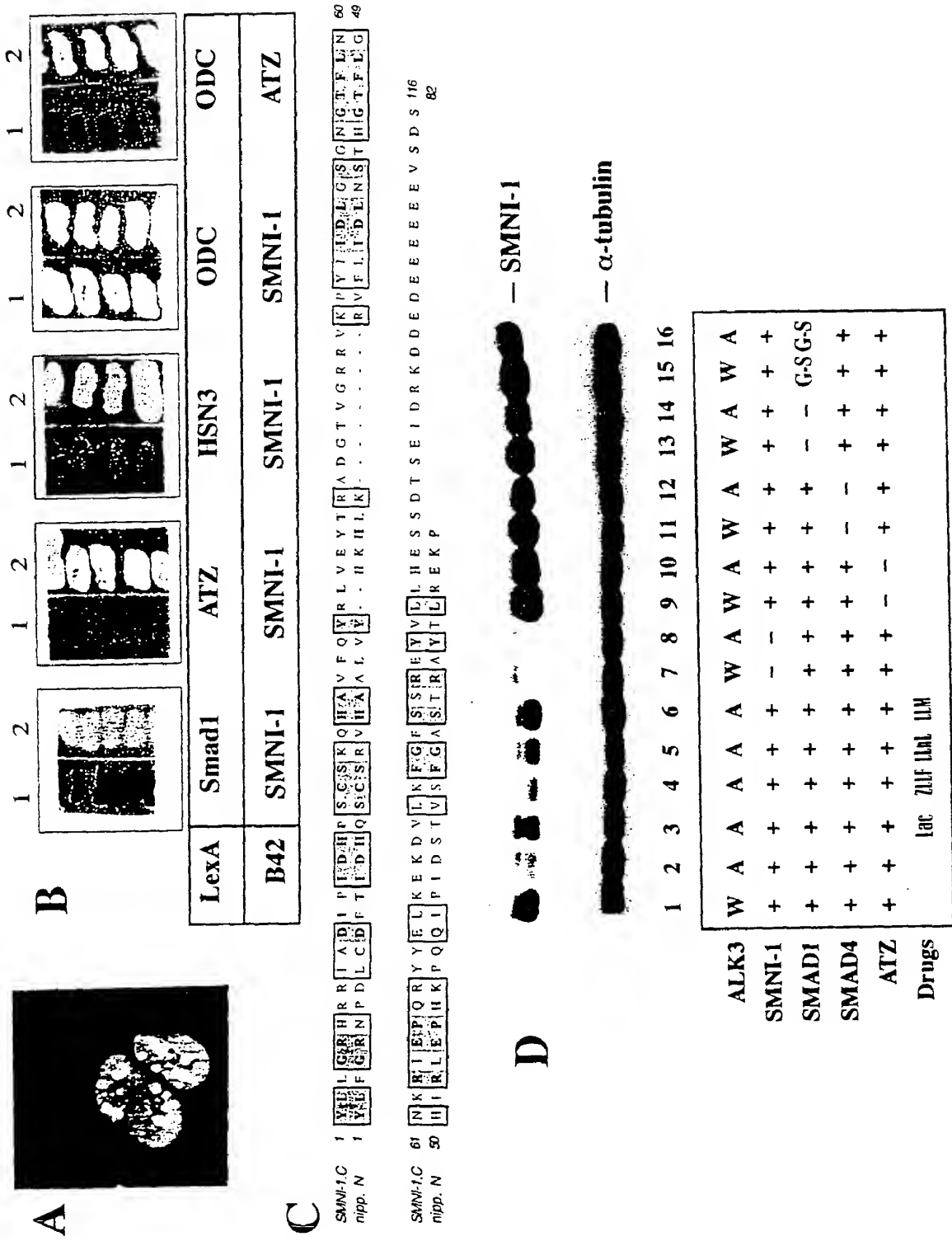


FIGURE 31

FIGURE 32

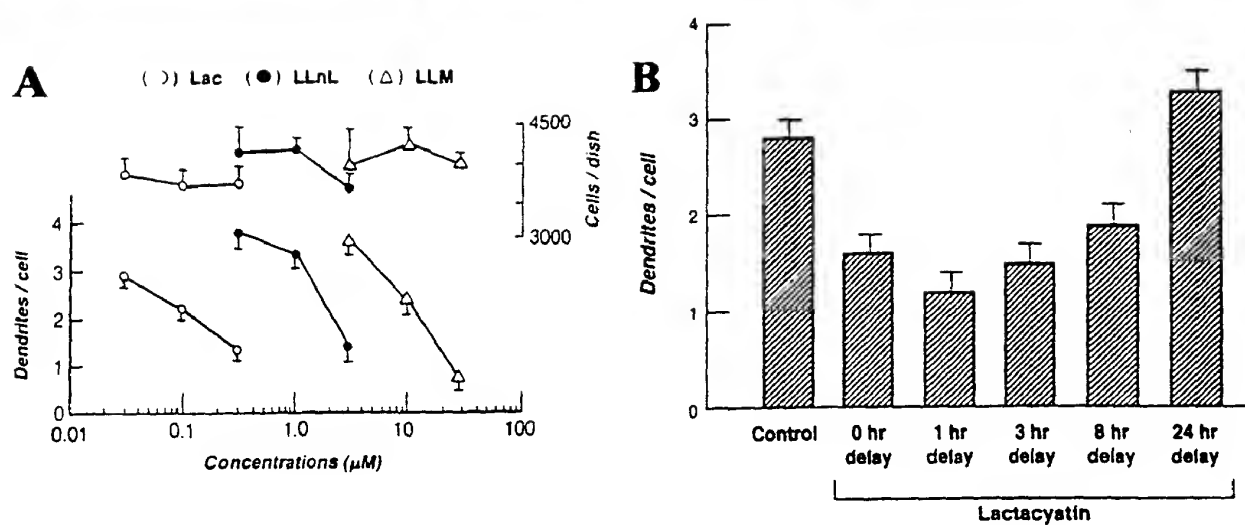
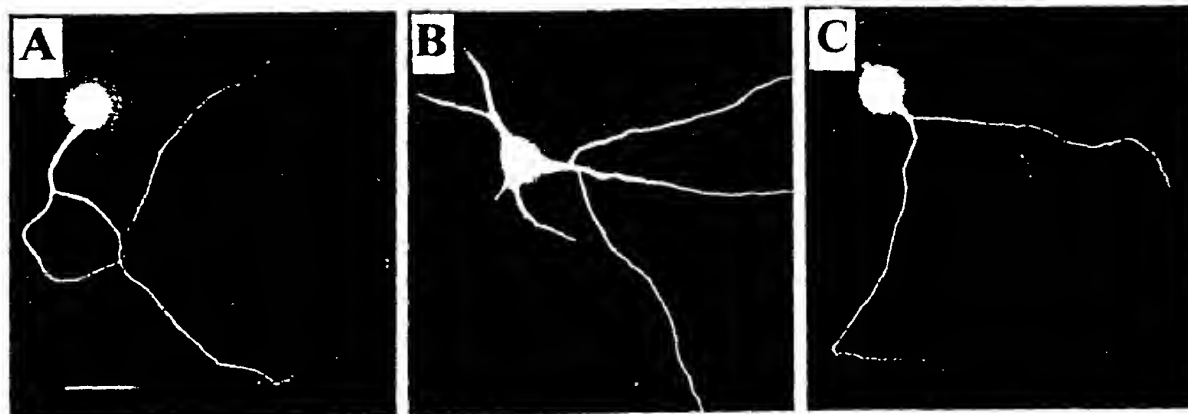
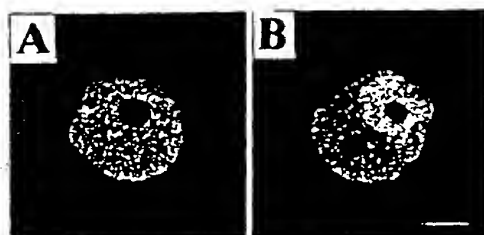




Figure 33

Clone S1+19 cDNA sequence (SEQ ID No. 23)

1 GAGGAGCTCAACTGATCTGTTTTCTTTCGCCCAGCCAAAATCACAGAATG 50  
51 AAGGCGGTGAAGAGCGAACGGGAGCGAGGGAGCCGGCGAAGACACCGGGA 100  
101 CGGGGACGTGGTGCTGCCGGCGGGGGTGGTGGTGAAGCAGGAGCGTCTCA 150  
151 GCCCAGAAGTCGCACCTCCCGCCCACCGCCGTCCGGACCACTCCGGTGGT 200  
201 AGCCCGTCTCCGCCGACCAGCGAGCCGGCCCGCTCGGGCCACCGCGGGAA 250  
251 CCGAGCCCGAGGAGTTAGCCGGTCCCCACCCAAAAAGAAAAACAAGGCCT 300  
301 CAGGGAGAAGAAGCAAGTCTCCTCGCAGTAAGAGAAACCGAAGTCCTCAC 350  
351 CACTCAACAGTCAAAGTGAAGCAGGAGCGTGAGGATCATCCCCGGAGAGG 400  
401 ACGGGAGGATCGGCAGCACAGGGAACCATCAGAACAGGAACACAGGAGAG 450  
451 CTAGGAACAGTGACCGGGACAGACACCGGGGCCATTCCCACCAAAGGAGA 500  
501 ACGTCTAACGAGAGGCCTGGGAGTGGGCAGGGTCAGGGACGGGATCGAGA 550  
551 CACTCAGAACCTGCAGGCTCAGGAAGAAGAGCGGGAGTTTTATAATGCCA 600  
601 GGCACGGGAGCATCGCCAGAGGAATGACGTTGGTGGTGGCGGCAGTGAG 650  
651 TCTCAGGAGTTGGTTCCTCGGCCTGGTGGCAACAACAAAGAAAAAGAGGT 700  
701 GCCCGCTAAAGAAAAACCAAGCTTTGAACTTTCTGGGGCACTTCTTGAGG 750  
751 ACACCAACACTTTCCGGGGTGTAGTCATTAAATATAGTGAGCCCCCAGAA 800  
801 GCACGTATCCCCAAAAAACGGTGGCGTCTCTACCCATTTAAAAATGATGA 850  
851 GGTGCTTCCAGTCATGTACATACATCGACAGAGTGCGTACCTACTGGGTC 900  
901 GACACCGCCGCATTGCAGACATTCCAATTGATCACCCGTCTTGTTCAAAG 950  
951 CAGCATGCGGTCTTTCAATATCGGCTTGTGGAATATACCCGTGCTGATGG 1000

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1001 CACAGTTGGCCGAAGAGTGAAGCCCTACATCATTGACCTTGGCTCAGGCA 1050  
1051 ATGGAACCTTCTTAAACAACAAACGTATTGAGCCACAGAGATACTATGAA 1100  
1101 CTAAAAGAAAAGGATGTACTCAAATTTGGATTTCAGTAGCAGAGAATACGT 1150  
1151 CTTGCTCCATGAGTCGTCGGACACTTCTGAAATAGACAGGAAAGATGACG 1200  
1201 AGGATGAGGAGGAGGAGGAAGAAGTGTCTGACAGCTAGCAAACCTAAGAAC 1250  
1251 CCAAACCTATTGATACACGGTTTCCTTCTTGAAGTCTTTGATTGACTCAG 1300  
1301 AGAGCACTATGGTGGTGGGTCCAGCACTATGGTGCTCTCTGTAATGCCTC 1350  
1351 TTACTGCCTTAAGTCTTTCCTCTGTTGCTGACCAGATTGTGTTACCATTT 1400  
1401 GAATACACTGACTAATGTTTGTAACTTTTTCTGTGGCACCTTGGCCAC 1450  
1451 ATGCCTGCAGGCATTTGTTTTTCAGAACAGTCTCACCAATTACAACACACC 1500  
1501 GTGTTTTAGTAGAAGTGTGTGGTTTTAGTTGGTGCTTTCAGAACTGCTG 1550  
1551 CCTAGGAAACTATAAACCCTTGGTTAAGGGGAAATCATGGCTTGTCTCT 1600  
1601 TTGTACAGTTACTTTATTTATATAGGTGTTAAGCTTTGTGGACCAGGTGT 1650  
1651 TTTTCTTTTGGGGCGAACCCCTGAGCAGAGAATCTTACTAGGCTTTGGTT 1700  
1701 ATCACCAAACAACCTCCAGTATATACCAAAGCTTTGACTTGTTTGAGCT 1750  
1751 CTTGAGCTTAGAAGTTGATTTTGCACCTATTTTTTTTGGGGGGTGGGAATG 1800  
1801 TACTGCAGTCAGTAAACATTATTGACTGTTTAACTTAAACAGATGCTTTA 1850  
1851 TGGCACCTGCTCAAGCCCGTGACTGTACAGAAGGATCCTGGTTGCTACCA 1900  
1901 GTGGGTGCTGATTTCAGCATCACAAGTGACTGAAATTGGCTGTGGATCTGT 1950  
1951 TCTTTGTGAAAGAATTCCTGATTTCTCCATGGAGCATGTACACAACAATT 2000  
2001 TTGATCATATTAAGTGTACTTCAGTTTTGCATTTTTATTCAAATGTTATC 2050  
2051 TCTTTTTTTCTTTGAGAAATAAACTGTCACTGATGTGACAGCGTTCTTTC 2100

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2101 TTTATTCTAATAACATGTATAGATCTAAAGCAGGTTGTGTTGTTTACATG 2150  
2151 TTTCTACACATTTTCATCCTTTAAAAAGTTGTTGAGAGAGGTTGTATTTAC 2200  
2201 CTTCCCAAGGTTGGAAAGCAGGGGAATTTCCCAGTGTCTAGTTTTCCAC 2250  
2251 CAGAGGAATATGTGTAAGTAGCAAAGTATTTGCTGCTTACATATAGTGTG 2300  
2301 TATGTATGTATATATGTAAATTGTGTGTTAAAGAGCTGATACTGATTTTC 2350  
2351 ATATGACAATGTTAGGCAAAGGCCTCCCTGCATTTGAAGAGCAGGTTTTTC 2400  
2401 ATTTATATGTATTTTTTGGGATAAAAAAATAAAATTTGTAAATATAGCCCC 2450  
2451 CAAA 2496

Figure 34

Clone S1+12-2 cDNA sequence (SEQ ID No. 24)

1 CCCACGCGTCCGGCCTCGGAGCAGCCATGATGGAAGGCCTGGACGACGGC 50  
51 CCGGACTTCCTCTCAGAAGAGGACCGCGGACTTAAAGCAATAAATGTAGA 100  
101 TCTTCAAAGTGATGCTGCTCTGCAGGTGGACATTTCTGATGCTCTTAGTG 150  
151 AGCGGGATAAAGTAAAATTCAGTGTTCACACAAAGAGTTCATTGCCAAAT 200  
201 TTAAACAAAACGAGTTTTTCAGTTGTTGCGCAACATGAGGAATTTATCTG 250  
251 GCTTCATGATTCCCTTTGTTGAAAATGAAGACTATGCAGGTTATATCATTC 300  
301 CACCAGCACCACCAAGACCTGATTTTGATGCTTCAAGGGAAAACTACAG 350  
351 AAGCTTGGTGAAGGAGAAGGGTCAATGACGAAGGAAGAATTCACAAAGAT 400  
401 GAAACAGGAACTGGAAGCTGAATATTTGGCAATATTCAAGAAGACAGTTG 450  
451 CGATGCATGAAGTGTTCCCTGTGTCGTGTGGCAGCACATCCTATTTTGAGA 500  
501 AGAGATTTAAATTTCCATGTCTTCTTGGAATATAATCAAGATTTGAGTGT 550  
551 GCGAGGAAAAAATAAAAAAGAGAACTTGAAGACTTCTTTAAAAACATGG 600  
601 TTAAATCAGCAGATGGAGTAATCGTTTCAGGAGTAAAGGATGTAGATGAT 650  
651 TTCTTTGAGCACGAACGAACATTTCTTTTGGAGTATCATAACCGAGTTAA 700  
701 GGATGCATCTGCTAAATCTGATAGAATGACAAGATCCCACAAAAGTGCTG 750  
751 CAGATGATTACAATAGAATTGGTTCTTCATTATATGCTTTAGGAACTCAG 800  
801 GATTCTACAGATATATGCAAGTTTTTTCTCAAAGTTTCAGAACTGTTCGA 850  
851 TAAACAAGAAAAATAGAAGCACGAGTGTCTGCTGATGAAGACCTCAAAC 900  
901 TTTCTGATCTTTTAAATATTACTTAAGAGAATCTCAAGCTGCTAAGGAT 950  
951 CTCCTGTATCGAAGGTCTAGGTCAGTAGTGGATTATGAAAATGCTAATAA 1000

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1001 AGCACTGGATAAAGCAAGAGCAAAAAATAAAGATGTTCTACAGGCCGAAA 1050  
1051 CTTCCCAACAATTATGTTGTCAGAAATTTGAAAAAATATCTGAGTCTGCA 1100  
1101 AAACAAGAACTTATAGATTTTAAGACAAGAAGAGTTGCTGCATTCAGAAA 1150  
1151 AAATTTAGTGGAAGTGGCAGAGTTAGAACTGAAGCATGCAAAGGGTAATC 1200  
1201 TACAGTTGCTGCAGAACTGCCTGGCAGTGTTAAATGGAGACACATAAGCC 1250  
1251 ACACTCCGCCTTCCTGTAAAAAGGGCTGCCTTCCTTCAAATTTTATTTT 1300  
1301 TGTTTTCTTAATGATGTTAAGCATTTATGCTCACTGGAAACAAACAAAAA 1350  
1351 GCAGCTGAAAAAGTGCATCAACTCCTCTTTTTCTGAGAAACATGGAGCAG 1400  
1401 CGCACGCCCAGGCGATGCCAGTCTGTGTGCCGTGATGCCGCACTGTGTTC 1450  
1451 CCCATGACAGTGGTCCATCATCGTGCACTCGTCATACTCAGAAGTCCAAA 1500  
1501 GTTCATTCTTCTTTAAAGTAGCCTCTATAACTCTGTTTATTTTATAAATA 1550  
1551 GTATTCCTTATGGCTGCCACTCTTATTTACCTTTAAATAAATTTCTGAAAT 1600  
1601 TTAACCTTTTCAGAATGCATTGTTGAAACAAGATAAAGATTGCCTTTTTT 1650  
1651 GAATTTTTTTAAATTTTGTTTTTAAAGCATATACCACCTTAGTTCATTCA 1700  
1701 TGTATCCTGGTAAAGCATCTTAATCAGACTTATTTTAAATTACTGAATAT 1750  
1751 TTCTTAGACGTTTTGGGACAGATTTTATGTAATCTTTATAAGTATGATTT 1800  
1801 CTGAAGAAAAGCAAATGCATTAGTATGTTTGCCTTAACTTGTAGACTAA 1850  
1851 ACCAAGTATTGTAAAATAAACAGCGATAACAGTGATAGTTTTTAACTCTA 1900  
1901 TGGTCATTGTATCACTCTGGAAAATGTGGAGTAGCTGTAATAAATCTACT 1950  
1951 CCTGTATTATGCTTT 1965

Figure 35

Clone S1+12-5 cDNA sequence (SEQ ID No. 25)

1 GCGGCGCCGAGTCCCGGGAGCGCGGTGGGGGCAGCGGGCGCGGGGCGGGC 50  
51 GCGGGGACCGCGCCAGCCTGTCACTAATGTCTCCCTTTGTGTCTCCCCCA 100  
101 TCTCATCCTTTTCCCCGGCGCGCCGTGCCCCGCCGACCCACAGGAAGGCC 150  
151 TGGACGACGGCCCGGACTTCCTCTCAGAAGAGGACCGCGGACTTAAAGCA 200  
201 ATAAATGTAGATCTTCAAAGTGATGCTGCTCTGCAGGTGGACATTTCTGA 250  
251 TGCTCTTAGTGAGCGGGATAAAGTAAATTCACTGTTCACACAAAGAGTT 300  
301 CATTGCCAAATTTTAAACAAAACGAGTTTTTCAGTTGTTCCGCAACATGAG 350  
351 GAATTTATCTGGCTTCATGATTCCTTTGTTGAAAATGAAGACTATGCAGG 400  
401 TTATATCATTCACCAGCACCAAGACCTGATTTTGATGCTTCAAGGG 450  
451 AAAAATAACAGAAGCTTGGTGAAGGAGAAGGGTCAATGACGAAGGAAGAA 500  
501 TTCACAAAGATGAAACAGGAACTGGAAGCGGGTTGGATAACAGAGAACCT 550  
551 TGGGTTTATTCTACTGCTACCTCCATCCTCTGCATCCTTCTTTTTTGTCT 600  
601 TCACTGAATGACTACCCTCACAGAGATCAAACCTCTCCCATCATTGGTCC 650  
651 TGCTGGTTTGCTGTGAATATTTGGCAATATTCAAGAAGACAGTTGCGATG 700  
701 CATGAAGTGTTCTGTGTCGTGTGGCAGCACATCCTATTTTGAGAAGAGA 750  
751 TTTAAATTTCCATGTCTTCTTGGAATATAATCAAGATTTGAGTGTGCGAG 800  
801 GAAAAAATAAAAAAGAGAACTTGAAGACTTCTTTAAAAACATGGTTAAA 850  
851 TCAGCAGATGGAGTAATCGTTTCAGGAGTAAAGGATGTAGATGATTTCTT 900  
901 TGAGCACGAACGAACATTTCTTTTGGAGTATCATAACCGAGTTAAGGATG 950  
951 CATCTGCTAAATCTGATAGAATGACAAGATCCCACAAAAGTGCTGCAGAT 1000

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1001 GATTACAATAGAATTGGTTCTTCATTATATGCTTTAGGAACTCAGGATTC 1050  
1051 TACAGATATATGCAAGTTTTTCTCAAAGTTTCAGAACTGTTTCGATAAAA 1100  
1151 CAAGAAAAATAGAAGCACGAGTGTCTGCTGATGAAGACCTCAAACCTTCT 1150  
1201 GATCTTTTAAAATATTACTTAAGAGAATCTCAAGCTGCTAAGGATCTCCT 1200  
1251 GTATCGAAGGTCTAGGTCACTAGTGGATTATGAAAATGCTAATAAAGCAC 1250  
1301 TGGATAAAGCAAGAGCAAAAAATAAAGATGTTCTACAGGCCGAAACTTCC 1300  
1351 CAACAATTATGTTGTCAGAAATTTGAAAAATATCTGAGTCTGCAAAACA 1350  
1401 AGAACTTATAGATTTTAAAGACAAGAAGAGTTGCTGCATTTCAGAAAAAATT 1400  
1451 TAGTGGAAGTGGCAGAGTTAGAAGTGAAGCATGCAAAGGGTAATCTACAG 1450  
1501 TTGCTGCAGAACTGCCTGGCAGTGTAAATGGAGACACATAAGCCACACT 1500  
1551 CCGCCTTCCTGTAAAAAGGGCTGCCTTCCTTCAAATTTTATTTTGTGTT 1550  
1601 TCTTAATGATGTAAAGCATTATGCTCACTGGAAACAAACAAAAAGCAGC 1600  
1651 TGAAAAAGTGCATCAACTCCTCTTTTTCTGAGAAACATGGAGCAGCGCAC 1650  
1701 GCCCAGGCGATGCCAGTCTGTGTGCCGTGATGCCGCACTGTGTTCCCAT 1700  
1751 GACAGTGGTCCATCATCGTGCACTCGTCATACTCAGAAGTCCAAAGTTCA 1750  
1801 TTCTTCTTTAAAGTAGCCTCTATAACTCTGTTTATTTTATAAATAGTATT 1800  
1851 CCTTATGGCTGCCACTCTTATTTACCTTTAAATAATTTCTGAAATTTAAC 1850  
1901 CTTTTCAGAATGCATTGTTGAAACAAGATAAAGATTGCCTTTTTTTGAATT 1900  
1951 TTTTAAATTTTGTTTTTTAAAGCATATACCACCTTAGTTCATTCATGTAT 2000  
2001 CCTGGTAAAGCATCTTAATCAGACTTATTTTAAATTACTGAATATTTCTT 2050  
2151 AGACGTTTTGGGACAGATTTTATGTAATCTTTATAAGTATGATTTCTGAA 2100  
3001 GAAAAGCAAATGCATTAGTATGTTTGCCTTAACTTGTAAGTAAACCAA 2150

3151 GTATTGTAAAATAAACAGCGATAACAGTGATAGTTTTTAACTCTATGGTC 2200  
3201 ATTGTATCACTCTGGAAAATGTGGAGTAGCTGTAATAAATCTAATCCTGT 2250  
3251 ATTATGCTTTAAA 2300  
3301 AAAAAAAAAAAAAAAAAAAAA 3319

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Figure 36

clone S1+27 cDNA sequence (SEQ ID No. 26)

1 GTCGACCCACGCGTCCGGCGGGCCGTGGGAGGGTCCCGAGGTGGGGGTCG 50  
51 GGGCGGGATGGCTGCAGCGGCGGCCGGGGCCGGGAGCGGGCCCTGGGCGG 100  
101 CCCAGGAGAAGCAGTTCCCGCCGGCGCTGCTGAGTTTCTTCATCTACAAC 150  
151 CCGCGCTTCGGGCGCGCGAAGGACAGGAGGAAAATAAGATTTTATTTTA 200  
201 TCATCCAAATGAGGTAGAAAAGAATGAGAAGATTAGAAATGTCGGATTGT 250  
251 GTGAAGCTATTGTACAGTTTACAAGGACATTTAGCCCATCAAAACCTGCA 300  
301 AAATCTTTACATACACAGAAGAACAGACAGTTCTTCAATGAACCAGAAGA 350  
351 AAATTTCTGGATGGTCATGGTTGTTCCGAATCCTATAATTGAAAAACAGA 400  
401 GTAAAGATGGAAAACCAGTTATTGAATATCAAGAGGAGGAGTTGTTGGAC 450  
451 AAGGTTTATAGCTCGGTGCTGCGGCAGTGCTACAGCATGTACAAGCTTTT 500  
501 TAATGGTACATTTCTGAAAGCCATGGAAGACGGAGGCGTCAAGCTTCTGA 550  
551 AAGAAAAATTAGAGAAATTCTTCCATCGGTATTTGCAAACGCTACATTTG 600  
601 CAGTCATGTGACCTACTTGACATTTTTTGGTGGAATCAGCTTCTTCCCGTT 650  
651 GGATAAAATGACTTATTTGAAAATCCAGTCCTTTATTAATAAGAATGGAG 700  
701 GAAAGCCTGAATATAGTCAAATACACTGCTTTTCTCTATAACGATCAGCT 750  
751 CATCTGGAGTGGATTAGAACAAGATGACATGAGAATTTTATACAAATACC 800  
801 TTACCACCTCCCTTTTCCCAAGGCACATCGAACCTGAGTTAGCAGGAAGG 850  
851 GATTCTCCAATAAGAGCAGAAATGCCAGGAAATCTTCAACACTATGGAAG 900  
901 ATTTCTTACCGGACCCTTGAACCTCAATGATCCAGATGCAAAATGCAGAT 950  
951 TCCCCAAAATTTTGTAAATACAGATGACACTTATGAAGAGCTCCATTTA 1000

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1001 ATCGTTTATAAGGCCATGAGTGCGGCTGTGTGCTTTATGATCGACGCCTC 1050  
1051 TGTCCACCCAACGTTGGATTTTTGCCGAAGACTGGACAGCATCGTTGGGC 1100  
1101 CCCAGCTCACAGTGCTGGCCTCTGACATCTGTGAACAGTTTAAACATCAAC 1150  
1151 AAGAGGATGTCCGGGTCTGAGAAAGAACCCAGTTTAAGTTTATCTACTT 1200  
1201 CAACCACATGAATCTCGCCGAGAAGAGCACAGTTCACATGAGGAAAACGC 1250  
1251 CCAGCGTGTGCTCACTTCCGTGCACCCGGATTTAATGAAGATTCTCGGT 1300  
1301 GACATCAACAGTGACTTTACCAGAGTGGATGAAGATGAGGAGATCATTGT 1350  
1351 GAAGGCCATGAGTGATTACTGGGTTGTTGGAAAGAAGTCTGATCGGCGGG 1400  
1401 AGCTCTATGTTATTTTGAATCAAAAAAATGCAAACCTGATTGAAGTAAAT 1450  
1451 GAGGTCAAGAACTTTGTGCAACGCAGTTCAACAACATCTTCTTCTTGGA 1500  
1501 TTGACGGATGACGGCTCACTGAGAGCATATCTAAAAAACACTCTGCAAAC 1550  
1551 ATTTGGTCACATGCAAGTTAGTGGTCATATGACGGACTGCATTTCAGGACA 1600  
1601 AGGGTAAAGCAATACTTGCTTTGAAGAATCACATTTGACTCGGTCTGCT 1650  
1651 GATCTGAGGTTTTTAGATTTTAAATATTTATGTGGAATTAATTAAAGGTA 1700  
1701 GTTGGCTATATCGCTATCATTTTATTCTTTTGACATTATGTGAATATTTT 1750  
1751 ACTGGAAAATAAGACTAATAAATTGTTAAAAGTTTTTAAAAAAAAAAAAAA 1800  
1801 AAAAAAAAAAAAAAAAAAAAAAAAAAAGGGCGGCC 1834

Figure 37

clone S1+28 cDNA sequence (SEQ ID No. 27)

1 GTTTGCAGTTGATGCTAAGGCCTTGCCTCAGAATAAGCCAAGGCCTCTCA 50  
51 CTCAAGAAGAAATTGCTCAGAGACGTGAGCGTGCAAGACAAAGGCATGCA 100  
101 GAGAAGCTTGCAGCAGCACAGGGACAGGCACCCTTGGAGCCCACCCAAGA 150  
151 TGGGAGTGCCATTGAAACATGTCCAAAAGGAGACGAGCCAAGAGGTGACG 200  
201 AGCAACAGGTGGAAAGTATGACCCCTAAACCTGTGCTCCAGGAAGAAAAC 250  
251 AACCAAGAGTCTTTTATTGCATTTGCTCGGGTGTTTCAGTGGTGTGGCTCG 300  
301 AAGAGGAAAGAAAATTTTTGTCTTGGGGCCCAAATACAGTCCTCTTGAGT 350  
351 TTTTACGAAGGGTACCATTATGCTTCTCAGCTCCACCAGATGGCCTCCCC 400  
401 CAAGTCCCCCACATGGCATACTGTGCTCTGGAAAACCTGTATCTTCTGAT 450  
451 GGGAAGGGAACCTGGAATATCTAGAGGAGGTACCTCCAGGAAATGTGCTAG 500  
501 GAATAGGAGGCCTTCAAGATTTTGTGCTGAAATCTGCAACACTGTGTAGC 550  
551 CTGCCATCCTGCCCACCATTATATACCACTCAACTTCGAAGCCACTCCTAT 600  
601 TGTGAGAGTTGCTGTTGAACCAAAACATCCAAGTGAAATGCCTCAGCTCG 650  
651 TAAAAGGAATGAAACTGTAAACCAGGCTGATCCCTGTGTCCAGATTTTA 700  
701 ATTCAGGAAACGGGAGAGCACGTTTTAGTCACAGCAGGAGAAGTCCACCT 750  
751 TCAGCGATGCCTGGATGACTTAAAAGAAAGGTTTGCAAAGATTCATATCA 800  
801 GTGTATCTGAACCTATTATTCCATTTCAGAGAAACAATCACAAAACCCCCA 850  
851 AAAGTTGACATGGTCAATGAAGAAATAGGCAAAACAGCAAAAAGTTGCAGT 900  
901 CATAACCAAATGAAAGAAGATCAAAGCAAAATCCCTGAAGGAATCCAAG 950  
951 TTGACTCTGACGGGCTAATCACCATAACAACCTCCCAATAAACTTGCCACG 1000

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1001 CTCAGTGTTCGAGCCATGCCCCTTCCAGAAGAAGTCACCCAGATTCTGGA 1050  
1051 AGAAAATAGTGATTTGATTTCGTTCTATGGAGCAGTTGACATCCTCTTTGA 1100  
1101 ATGAGGGTGAAAATACTCACATGATTCATCAGAAGACCCAAGAGAAAATT 1150  
1151 TGGGAATTCAAAGGAAAACCTGGAGCAACACCTAACAGGGAGAAGATGGAG 1200  
1201 GAACATTGTTGACCAAATCTGGTCATTTGGCCCAAGAAAATGTGGGCCCCA 1250  
1251 ACATACTAGTCAATAAAAAGTGAAGATTTTCAGAACTCAGTATGGACAGGT 1300  
1301 CCAGCTGACAAAGCTTCAAAGAAGCCAGTAGATACCGAGATTTGGGCAA 1350  
1351 TAGCATTGTGAGTGGCTTCCAAC TAGCAACCCTCTCTGGCCCCATGTGTG 1400  
1401 AGGAGCCTCTCATGGGTGTCTGTTTTGTTCTGGAAAAATGGGACCTAAGT 1450  
1451 AAATTTGAGGAACAAGGAGCAAGTGATCTGGCAAAGAGGACAGGAGGAA 1500  
1501 AATGAAACCTGTTCTGGTGGAATGAAAACCAAGAGCTACAAGATGGCTG 1550  
1551 CTCTGAGGCCTTTGAGAAGAGGACATCACAGAAAGGAGAATCTCCACTCA 1600  
1601 CTGACTGCTATGGACCTTTCTCAGGACAGCTAATTGCCACCATGAAAGAA 1650  
1651 GCATGTCGCTATGCACTGCAAGTGAAACCTCAGCGCCTGATGGCAGCTAT 1700  
1701 GTACACATGTGACATCATGGCCACTGGTGATGTTCTCGGTGAGTCTATG 1750  
1751 CTGTCTTGTCAAAGAGAGAAGGTCGGGTACTTCAAGAAGAAATGAAAGAA 1800  
1801 GGGACAGACATGTTTCATCATCAAGGCTGTGCTGCCTGTTGCTGAAAGCTT 1850  
1851 TGGTTTTGCTGATGAAATCAGGAAGAGGACAAGTGGCCTGGCCAGCCCAC 1900  
1901 AACTAGTATTCAGCCATTGGGAGATCATTCCCAGTGACCCTTCTGGGTGC 1950  
1951 CAACTACTGAGGAGGAATACTTGCACTTTGGGGAGAAGGCTGACTCTGAG 2000  
2001 AACCAAGCCCGGAAGTACATGAACGCAGTACGAAAGCGGAAGGGGCTTTA 2050  
2051 TGTGGAAGAAAAGATTGTGGAGCATGCAGAAAAGCAGAGGACACTCAGCA 2100

2101 AAAATAAGTAGCTACCTACTACTGGTGGATTCTTTTCCTTATAGTGAATT 2150  
2201 TAAAAGTATCATCAAGGGTTTAATATTGGGAAAATTTCTTTTGGCCACAT 2250  
2251 TATCTCTGTTTATTCACTTTCAATAAAGTTGATCCATATAAATATTTTAA 2300  
2301 AGAGGATGTTAAAAAAAAAAAAAAAAA 2327

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